## SEQUENCE LISTING

						-										
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tat to Tyr Se															3	301
ttg ga Leu Gl 80	u Thr														3	349

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					ctg Leu												445
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											gac Asp					1165
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											cta Leu					1357
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Ser Lys Met Ala Ser Tyr Leu Tyr Gly Val Leu Phe Ala Val Gly Leu

Cys Ala Pro Ile Tyr Cys Val Ser Pro Ala Asn Ala Pro Ser Ala Tyr \$35\$

Pro Arg Pro Ser Ser Thr Lys Ser Thr Pro Ala Ser Gln Val Tyr Ser 50 60

Leu Asn Thr Asp Phe Ala Phe Arg Leu Tyr Arg Arg Leu Val Leu Glu 65 70 75 80

Thr Pro Ser Gln Asn Ile Phe Phe Ser Pro Val Ser Val Ser Thr Ser 85  $\phantom{\bigg|}90\phantom{\bigg|}$  90  $\phantom{\bigg|}95\phantom{\bigg|}$ 

Leu Ala Met Leu Ser Leu Gly Ala His Ser Val Thr Lys Thr Gln Ile 100  $$105\$ 

Leu Gln Gly Leu Gly Phe Asn Leu Thr His Thr Pro Glu Ser Ala Ile 115  $$\rm 120$$ 

His Gln Gly Phe Gln His Leu Val His Ser Leu Thr Val Pro Ser Lys 130 135 140

Asp Leu Thr Leu Lys Met Gly Ser Ala Leu Phe Val Lys Lys Glu Leu 145 150 155 160

Gln Leu Gln Ala Asn Phe Leu Gly Asn Val Lys Arg Leu Tyr Glu Ala 165 \$170\$

Glu Val Phe Ser Thr Asp Phe Ser Asn Pro Ser Ile Ala Gln Ala Arg 180  $$180\,$ 

Ile Asn Ser His Val Lys Lys Lys Thr Gln Gly Lys Val Val Asp Ile 195 200 205

Ile Gln Gly Leu Asp Leu Leu Thr Ala Met Val Leu Val Asn His Ile 210 215 220

Phe Phe Lys Ala Lys Trp Glu Lys Pro Phe His Leu Glu Tyr Thr Arg 225 230 230 235

Lys Asn Phe Pro Phe Leu Val Gly Glu Gln Val Thr Val Gln Val Pro  $245 \hspace{1cm} 255 \hspace{1cm}$ 

Met Met His Gln Lys Glu Gln Phe Ala Phe Gly Val Asp Thr Glu Leu 260 265 270

Asn Cys Phe Val Leu Gln Met Asp Tyr Lys Gly Asp Ala Val Ala Phe 275 280 285

Phe Val Leu Pro Ser Lys Gly Lys Met Arg Gln Leu Glu Gln Ala Leu 290 295 300

Ser Ala Arg Thr Leu Ile Lys Trp Ser His Ser Leu Gln Lys Arg Trp 305 310 315

Ile Glu Val Phe Ile Pro Arg Phe Ser Ile Ser Ala Ser Tyr Asn Leu \$325\$ \$330\$ \$335

Glu Thr Ile Leu Pro Lys Met Gly Ile Gln Asn Ala Phe Asp Lys Asn 340 345 350

Ala Asp Phe Ser Gly Ile Ala Lys Arg Asp Ser Leu Gln Val Ser Lys \$355\$

Ala Thr His Lys Ala Val Leu Asp Val Ser Glu Glu Gly Thr Glu Ala 370 375 380

Thr Ala Ala Thr Thr Thr Lys Phe Ile Val Arg Ser Lys Asp Gly Pro 385  $\phantom{\bigg|}390\phantom{\bigg|}$  Pro  $\phantom{\bigg|}395\phantom{\bigg|}$ 

Asn Lys Ala Thr Asp Gly Ile Leu Phe Leu Gly Lys Val Glu Asn Pro \$420\$

Thr Lys Ser 435

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<213> Homo sapiens

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- Phe Cys Pro Ala Val Leu Cys His Pro Asn Ser Pro Leu Asp Glu Glu 20 25 30
- Asn Leu Thr Gln Glu Asn Gln Asp Arg Gly Thr His Val Asp Leu Gly 35 40 45
- Leu Ala Ser Ala Asn Val Asp Phe Ala Phe Ser Leu Tyr Lys Gln Leu 50 55 60
- Val Leu Lys Ala Pro Asp Lys Asn Val Ile Phe Ser Pro Leu Ser Ile 65 70 75 80
- Ser Thr Ala Leu Ala Phe Leu Ser Leu Gly Ala His Asn Thr Thr Leu 85 90 95
- Thr Glu Ile Leu Lys Gly Leu Lys Phe Asn Leu Thr Glu Thr Ser Glu
- Ala Glu Ile His Gln Ser Phe Gln His Leu Leu Arg Thr Leu Asn Gln
- Ser Ser Asp Glu Leu Gln Leu Ser Met Gly Asn Ala Met Phe Val Lys
- Glu Gln Leu Ser Leu Leu Asp Arg Phe Thr Glu Asp Ala Lys Arg Leu 145 150 155 160
- Tyr Gly Ser Glu Ala Phe Ala Thr Asp Phe Gln Asp Ser Ala Ala Ala 165 \$170\$ 175
- Lys Lys Leu Ile Asn Asp Tyr Val Lys Asn Gly Thr Arg Gly Lys Ile 180 185 190
- Thr Asp Leu Ile Lys Asp Leu Asp Ser Gln Thr Met Met Val Leu Val
- Asn Tyr Ile Phe Phe Lys Ala Lys Trp Glu Met Pro Phe Asp Pro Gln 210 215
- Asp Thr His Gln Ser Arg Phe Tyr Leu Ser Lys Lys Lys Trp Val Met 225 230 235 240
- Glu Glu Leu Ser Cys Thr Val Val Glu Leu Lys Tyr Thr Gly Asn Ala 260 265 270
- Ser Ala Leu Phe Ile Leu Pro Asp Gln Asp Lys Met Glu Glu Val Glu 275 280 285
- Ala Met Leu Leu Pro Glu Thr Leu Lys Arg Trp Arg Asp Ser Leu Glu 290 295 300

Phe Arg Glu Ile Gly Glu Leu Tyr Leu Pro Lys Phe Ser Ile Ser Arg 305 310 315 320

Asp Tyr Asn Leu Asn Asp Ile Leu Leu Gln Leu Gly Ile Glu Glu Ala 325 330 335

Phe Thr Ser Lys Ala Asp Leu Ser Gly Ile Thr Gly Ala Arg Asn Leu 340 345 350

Ala Val Ser Gln Val Val His Lys Ala Val Leu Asp Val Phe Glu Glu 355 360 365

Gly Thr Glu Ala Ser Ala Ala Thr Ala Val Lys Ile Thr Leu Leu Ser

Ala Leu Val Glu Thr Arg Thr Ile Val Arg Phe Asn Arg Pro Phe Leu 385 \$390\$

Met Ile Ile Val Pro Thr Asp Thr Gln Asn Ile Phe Phe Met Ser Lys 405 410 410

Val Thr Asn Pro Lys Gln Ala 420

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<212> PRT <213> Homo sapiens

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Leu Ser His Gly Gln Leu His Val Glu His Asp Gly Glu Ser Cys Ser 20 25 30

Asn Ser Ser His Gln Gln Ile Leu Glu Thr Gly Glu Gly Ser Pro Ser 35 40 45

Leu Lys Ile Ala Pro Ala Asn Ala Asp Phe Ala Phe Arg Phe Tyr Tyr 50 60

Leu Ile Ala Ser Glu Thr Pro Gly Lys Asn Ile Phe Phe Ser Pro Leu 65 70 75 80

Ser Ile Ser Ala Ala Tyr Ala Met Leu Ser Leu Gly Ala Cys Ser His  $85 \hspace{1cm} 90 \hspace{1cm} 95$ 

Ser Arg Ser Gln Ile Leu Glu Gly Leu Gly Phe Asn Leu Thr Glu Leu 100 105 110

Ser Glu Ser Asp Val His Arg Gly Phe Gln His Leu Leu His Thr Leu 115  $$\rm 120$$  125

Asn Leu Pro Gly His Gly Leu Glu Thr Arg Val Gly Ser Ala Leu Phe 130 135 140

Leu Ser His Asn Leu Lys Phe Leu Ala Lys Phe Leu Asn Asp Thr Met 145 150 155 Ala Val Tyr Glu Ala Lys Leu Phe His Thr Asn Phe Tyr Asp Thr Val 170 Gly Thr Ile Gln Leu Ile Asn Asp His Val Lys Lys Glu Thr Arg Gly 180 185 Lys Ile Val Asp Leu Val Ser Glu Leu Lys Lys Asp Val Leu Met Val 200 Leu Val Asn Tyr Ile Tyr Phe Lys Ala Leu Trp Glu Lys Pro Phe Ile 210 Ser Ser Arg Thr Thr Pro Lys Asp Phe Tyr Val Asp Glu Asn Thr Thr Val Arg Val Pro Met Met Leu Gln Asp Gln Glu His His Trp Tyr Leu His Asp Arg Tyr Leu Pro Cys Ser Val Leu Arg Met Asp Tyr Lys Gly 265 Asp Ala Thr Val Phe Phe Ile Leu Pro Asn Gln Gly Lys Met Arg Glu Ile Glu Glu Val Leu Thr Pro Glu Met Leu Met Arg Trp Asn Asn Leu Leu Arg Lys Arg Asn Phe Tyr Lys Lys Leu Glu Leu His Leu Pro Lys 305 Phe Ser Ile Ser Gly Ser Tyr Val Leu Asp Gln Ile Leu Pro Arg Leu 330 Gly Phe Thr Asp Leu Phe Ser Lys Trp Ala Asp Leu Ser Gly Ile Thr Lys Gln Gln Lys Leu Glu Ala Ser Lys Ser Phe His Lys Ala Thr Leu Asp Val Asp Glu Ala Gly Thr Glu Ala Ala Ala Ala Thr Thr Phe Ala 370 Ile Lys Phe Phe Ser Ala Gln Thr Asn Arg His Ile Leu Arg Phe Asn Arg Pro Phe Leu Val Val Ile Phe Ser Thr Ser Thr Gln Ser Val Leu 410 Phe Leu Gly Lys Val Val Asp Pro Thr Lys Pro 420

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Met Ser Pro Phe Leu Tyr Leu Val Leu Val Leu Gly Leu His Ala 1  $\phantom{\bigg|}$  5  $\phantom{\bigg|}$  10  $\phantom{\bigg|}$  15

Thr Ile His Cys Ala Ser Pro Glu Gly Lys Val Thr Ala Cys His Ser 20 25 30

Ser Gln Pro Asn Ala Thr Leu Tyr Lys Met Ser Ser Ile Asn Ala Asp  $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$ 

Phe Ala Phe Asn Leu Tyr Arg Arg Phe Thr Val Glu Thr Pro Asp Lys 50 55 60

Asn Ile Phe Phe Ser Pro Val Ser Ile Ser Ala Ala Leu Val Met Leu 65 70 75 80

Ser Phe Gly Ala Cys Cys Ser Thr Gln Thr Glu Ile Val Glu Thr Leu 85 90 95

Gly Phe Asn Leu Thr Asp Thr Pro Met Val Glu Ile Gln His Gly Phe  $100 \,$   $\,$   $110 \,$ 

Gln His Leu Ile Cys Ser Leu Asn Phe Pro Lys Lys Glu Leu Glu Leu 115  $$\rm 120$$ 

Gln Ile Gly Asn Ala Leu Phe Ile Gly Lys His Leu Lys Pro Leu Ala 130 140 Lys Phe Leu Asn Asp Val Lys Thr Leu Tyr Glu Thr Glu Val Phe Ser

Thr Asp Phe Ser Asn Ile Ser Ala Ala Lys Gln Glu Ile Asn Ser His

Val Glu Met Gln Thr Lys Gly Lys Val Val Gly Leu Ile Gln Asp Leu 180 185 190

Lys Pro Asn Thr Ile Met Val Leu Val Asn Tyr Ile His Phe Lys Ala 195 200 205

Gln Trp Ala Asn Pro Phe Asp Pro Ser Lys Thr Glu Asp Ser Ser Ser 210 215 220

Phe Leu Ile Asp Lys Thr Thr Thr Val Gln Val Pro Met Met His Gln 225 230 235 240

Met Glu Gln Tyr Tyr His Leu Val Asp Met Glu Leu Asn Cys Thr Val

Leu Gln Met Asp Tyr Ser Lys Asn Ala Leu Ala Leu Phe Val Leu Pro  $260 \hspace{1cm} 265 \hspace{1cm} 265 \hspace{1cm} 270 \hspace{1cm}$ 

Lys Glu Gly Gln Met Glu Ser Val Glu Ala Ala Met Ser Ser Lys Thr

275 280 285

Leu Lys Lys Trp Asn Arg Leu Leu Gln Lys Gly Trp Val Asp Leu Phe 290 295 300

Val Pro Lys Phe Ser Ile Ser Ala Thr Tyr Asp Leu Gly Ala Thr Leu 305 310 315

Leu Lys Met Gly Ile Gln His Ala Tyr Ser Glu Asn Ala Asp Phe Ser 325 330 335

Gly Leu Thr Glu Asp Asn Gly Leu Lys Leu Ser Asn Ala Ala His Lys \$340\$ \$345 \$350

Ala Val Leu His Ile Gly Glu Lys Gly Thr Glu Ala Ala Ala Val Pro 355 360 365

Glu Val Glu Leu Ser Asp Gln Pro Glu Asn Thr Phe Leu His Pro Ile 370 375 380

Ile Gln Ile Asp Arg Ser Phe Met Leu Leu Ile Leu Glu Arg Ser Thr 385  $\phantom{\bigg|}$  390  $\phantom{\bigg|}$  395  $\phantom{\bigg|}$  400

Arg Ser Ile Leu Phe Leu Gly Lys Val Val Asn Pro Thr Glu Ala 405 410 410

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<213> Homo sapiens

Met Asp Pro Gln Gly Asp Ala Ala Gln Lys Thr Asp Thr Ser His His

Asp Gln Asp His Pro Thr Phe Asn Lys Ile Thr Pro Asn Leu Ala Glu 20 25 30

Phe Ala Phe Ser Leu Tyr Arg Gln Leu Ala His Gln Ser Asn Ser Thr 35 40 45

Asm Ile Phe Phe Ser Pro Val Ser Ile Ala Thr Ala Phe Ala Met Leu 50 60

Ser Leu Gly Thr Lys Ala Asp Thr His Asp Glu Ile Leu Glu Gly Leu 65  $\phantom{000}70\phantom{000}75\phantom{000}$  80

Asn Phe Asn Leu Thr Glu Ile Pro Glu Ala Gln Ile His Glu Gly Phe 85 90 95

Gln Glu Leu Leu Arg Thr Leu Asn Gln Pro Asp Ser Gln Leu Gln Leu 100 105 110

Thr Thr Gly Asn Gly Leu Phe Leu Ser Glu Gly Leu Lys Leu Val Asp 115 120 125

- Lys Phe Leu Glu Asp Val Lys Lys Leu Tyr His Ser Glu Ala Phe Thr
- Val Asn Phe Gly Asp Thr Glu Glu Ala Lys Lys Gln Ile Asn Asp Tyr 145 150 155 160
- Val Glu Lys Gly Thr Gln Gly Lys Ile Val Asp Leu Val Lys Glu Leu 165 170 175
- Asp Arg Asp Thr Val Phe Ala Leu Val Asn Tyr Ile Phe Phe Lys Gly
- Lys Trp Glu Arg Pro Phe Glu Val Lys Asp Thr Glu Glu Glu Asp Phe 195 200 205
- His Val Asp Gln Val Thr Thr Val Lys Val Pro Met Met Lys Arg Leu 210 215 220
- Gly Met Phe Asn Ile Gln His Cys Lys Lys Leu Ser Ser Trp Val Leu 225 \$230\$ 235 \$240\$
- Leu Met Lys Tyr Leu Gly Asn Ala Thr Ala Ile Phe Phe Leu Pro Asp 245 250 255
- Glu Gly Lys Leu Gln His Leu Glu Asn Glu Leu Thr His Asp Ile Ile 260 \$265\$
- Thr Lys Phe Leu Glu Asn Glu Asp Arg Arg Ser Ala Ser Leu His Leu 275 280 285
- Pro Lys Leu Ser Ile Thr Gly Thr Tyr Asp Leu Lys Ser Val Leu Gly 290 295 300
- Gln Leu Gly Ile Thr Lys Val Phe Ser Asn Gly Ala Asp Leu Ser Gly 305 \$310\$ 315 \$320
- Val Thr Glu Glu Ala Pro Leu Lys Leu Ser Lys Ala Val His Lys Ala 325 330 335
- Val Leu Thr Ile Asp Glu Lys Gly Thr Glu Ala Ala Gly Ala Met Phe
- Leu Glu Ala Ile Pro Met Ser Ile Pro Pro Glu Val Lys Phe Asn Lys
- Pro Phe Val Phe Leu Met Ile Glu Gln Asn Thr Lys Ser Pro Leu Phe  $_{\rm 370}$   $\phantom{>}$   $\phantom{>}$   $\phantom{>}$   $\phantom{>}$  375  $\phantom{>}$  380
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                                                                     120
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                                                                     180
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